# SEVERE STORMS FOR MAY 1949

The table hereunder contains such data as have been received concerning severe local storms that occurred during the month. A revised list will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Eagle Gap, Ark	Apr. 30-	Night				Wind and bail	Extensive damage to roads, timber, farm houses and outbuildings.
Vandervoort and Cove, Ark.	May 1	do				Wind	Several barns, outbuildings and 2 houses destroyed.
· ·	May 1	i !				do	Destroyed 1 house.
Russellville, Ark	May 1	1 1					, ,
Ratcliff, Ark Dickson, Tenn	1	Morning 11:45 a. m	400	0		Tornadic winds and rain.	Trees and 3 houses damaged.  Approximately 50 houses and 1 factory building damaged, and many early gardens ruined. Windows broken, roofs damaged, trees twisted and broken, and electric service disrupted. Storm lasted 5 minutes.
Pulaski, Tenn		Noon	50	0	\$75,000	Tornado and rain	Seed processing plant suffered severe damage; 2 buildings un- roofed, equipment of processing plant severely damaged, grain elevators completely destroyed, and stock of processed seed damaged. Path of storm approximately 300 yards in north- eastward direction.
Mt. Pleasant, Tenn		do	500	0		do	Storm lasted about 10 minutes. Winds estimated up to 75 m. p. h. Every power line in town was out for a short period of time. Falling limbs and trees damaged about 15 homes and buildings. Length of path about 12 miles in northward direction.
Mishawaka, Ind Chickasaw County, Miss	1	4:10 p. m Late afternoon			75, 000 25, 000	Wind Tornado	Severe line squall.  Passed over sparsely settled areas north of Houston to near Okolon; damaged several homes, numerous trees. No personal injuries.
Water Valley, Miss Jacksonville, Fla	1 2	2:30–3 p. m			100,000 2,000	Electrical, wind and hail.	Details lacking, but apparently no serious injuries. Gusty winds broke plate glass store window. Garage partially unroofed. Lightning struck garage causing damage to structure and contents estimated at \$700. Electric distribution equipment damaged by lightning at several points. Light hail fell in several sections.
Chaves County (southern portion), N. Mex.	3	3-5 p. m			3, 500	Hail	Some damage to cotton and alfalfa.
Brainerd and vicinity, Minn.	3	4-6 p. m	16	0	32,000	Thundersqualls (possibly small tornado).	Many buildings either moved from foundations, unroofed, or otherwise damaged: awnings, signs and billboards blown away; 2 steel light towers at baseball park wrecked; fences, score board, and press box demolished and grandstand damaged; poles and wires down; several airplanes at airport blown off field and 1
Brainerd and vicinity, Minn.	3	4-6 p. m			5,000	Hail	damaged extensively; trees uprooted.  Heavy hall, accompanying severe thunderstorm, resulted in many broken windows; greenhouses, roofs, neon signs, and automobile tous damaged. Some damage to growing grops.
Greeley, Wichita, and Scott Counties, Kans.	3	Late afternoon				do	tops damaged. Some damage to growing crops.  Hail fell along several paths over northern portion of these counties, at intervals in general storm. Some hailstones as large as bens' eggs and driven several inches into ground. Wheat losses ranged
Northern Roosevelt and southern Curry Counties, N. Mex.	3	Late afternoon a	nd evening			Rain and hail	I from to percent to total. Little property damage.
Moose Lake and vicinity,	3				500	Electrical	3 homes damaged by lightning.
Minn. Vicinity of Lake Superlor in northwestern Wisconsin.  Flamingo, Fla.	3-5	Afternoon			100,000	Thunderstorms	High winds blew down trees, disrupting power and communication service; demolished about 20 farm buildings. Accompanying heavy rains caused minor floods, washing out 3 small bridges and damaging highways. Man drowned in harbor at Superior when small boat capsized.  55 miles southwest of Miami lightning struck tent in which 4
Chaves County (southern	4	4 p. m				Hail	persons were seeking shelter, killing 1 instantly and injuring the others.  Cotton destroyed.
portion), N. Mex.		1 1			i		-
Portales and vicinity, N. Mex.	4	5:30 p. m			l	Hail and wind	property.
Underwood and vicinity, Minn. Richwood Township, Becker	4	5:30–6 p. m				Hail	ble damage to real property and some damage to growing crops. Some young pigs and poultry killed.
County, Minn. Thomas, Rawlins, and De-	5				2, 500	Thundersqualls	forms
catur Counties, Kans.					150, 000	Hail	Rawlins Counties, progressed northeastward across Rawlins County and into Decatur County. Total path of destruction, about 60 miles. Stones as large as goose eggs and golf balls fell in some areas. Storm appeared to separate into 3 paths over northern Decatur County. Some wheat fields a total loss.
Ettrick and Trempealeau, Wis.	5	7:30 p. m			10,000	Thunderstorm	
Fillmore County, Nebr	5	8:30–9 p. m			35, 050	Hail	alfalfa. Storm described as splitting, 1 part moving northeast- ward from Geneva and the other southeastward. Path 6 to 10 miles long.
Sedan and vicinity, Nuckolls County, Nebr.	5	P. m	-		2,000	do	Alfalfa, oats, and wheat damaged. Path 4 to 5 miles long.
County, Nebr. Dalhart, Tex. Rawlins to Rock Springs,	5 5		200	0		Tornado	Chicken house demolished; about 100 chickens killed. Highway 30 blocked. Many travelers stranded.
Wyo. Chaves County (southern portion), N. Mex.	6	2 p. m			10, 000	Hail	Cotton damaged.
Havana, Gadsden County, I	6	Afternoon			150,000	do	Hail virtually destroyed 250 acres of shade tobacco.
Fla. Bledsoe, Tex. Sundown, Hockley County, Tex.	6 6	5 p. m 5:45 p. m		0	350, 000	Tornado and hail	cars and trucks demolished. 2 cows received broken legs.
Charles Town and vicinity, W. Va.	7	2:30 p. m		l .		Hail and rain	Enormous amount of glass damage. 3 persons injured.  Hallstones ½ inch in diameter severely damaged all crops and shattered many glass windows.
	7 7	Afternoon Late afternoon 6:25 p. m. P. m.			150, 000	Hail and wind Electrical	Damaged gardens and field crops. Large feed supply store burned. Revival tent blown down; 6 persons injured, 1 seriously.
Timberville, Va	7 7	6:25 p. m				Wind Hail and wind	Revival tent blown down; 6 persons injured, 1 seriously.  Damage to strawberries and wheat; 2 trees uprooted.
						шаш	Damage to tender garden crops.
Talbot County, Md	7	P. m				Wind and thunder- storm,	Trees blown down.

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Shirley, Ark		Night				Hail	Considerable damage to gardens.
Milton, Fla Jacksonville, Fla	8	Night			1,000	Electrical and wind	Moderate to heavy hall damaged growing crops to some extent. Thunderstorm to west of city with winds estimated to have reached 70 m. p. h. at Herlong Field where 4 sirplanes and an automobile damaged; the damage to car due to wind blowing 34-ton truck against it. Lightning struck a parked car on which 4 people were standing at Jacksonville Speedway, but caused no damage
Cape Sable, Fla Grandfield (near), Tillman	8 8	Afternoon 5–6 p. m	880-3, 520	1	500,000	Electrical Hail	and only minor injuries. Woman sitting in tent killed by lightning. One area southwest and another east of Grandfield. Damage to
County, Okla.  Kansas City (southeastern edge of), Mo.	8	5:30 p. m	50-100	0	1, 500	Tornado	wheat and some alfalfa.  Slight damage to house and barn, and some trees blown down. On another farm, barn moved about 75 feet and set down in bad condition. Several trees blown down nearby and other minor damage. Except for some other trees blown down and limbs
Schulter, Pittsburg County, Okla.	8	6:30-6:35 p. m		0	30,000	Tornado and hail	condition. Several trees blown down nearby and other minor damage. Except for some other trees blown down and limbs twisted, no further evidences of tornado.  Path 5 miles long. No injuries. Storm from southwest turned and left town in southeastward direction. Hall damage \$20,000 to crops; tornado damage to buildings, \$10,000.
Newport, Ark Coalton-Nokomis area, Ill	8 9	Night 12:30 p. m			2, 000	Haildo	Considerable damage to spinach crop in southern Jackson County.  Hailstones up to 1 inch in diameter damaged a number of gardens and some wheatfields.
Cape Girardeau County, Mo.	9	2 p. m	1 1			Thunderstorm and hail.	Hail did considerable damage to gardens and fruits near Gordon.
St. Louis County (extreme northeastern portion), Mo.	9	2:30 p. m		]		Tornado	Trees uprooted and section of barn blown into Missouri River by a small tornado which struck Columbia bottoms area near con- fluence of Missouri and Mississippi Rivers.
Columbia, S. C	9	2:47-10 p. m		į .	3, 000	Electrical	Woman killed by lightning and her house burned. Other minor damage caused by wind squalls.
Jonesboro, Ill	9	3:30 p. m 4:30–6 p. m	11		15, 000 300, 000	Hail and wind	Considerable damage to tree fruits and other crops. Several buildings unroofed, poultry killed, crops cut to pieces over 12 square miles or more. Estimated 200,000 bushels of fruit
Greene County, Ind	9	5 p. m	13		26,000	do	Stones up to 1 inch diameter. Heavy hail caused some roofs to
Nashville, Tenn	9	6:20 p. m	1	l .	t.	Electrical and hail	ville and Pocahontas. Some damage to hay-crops and windows. Some replanting of crops and gardens necessitated. Trees uprooted and section of barn blown into Missouri River by a small tornado which struck Columbia bottoms area near confluence of Missouri and Mississippi Rivers. Woman killed by lightning and her house burned. Other minor damage caused by wind squalls. Considerable damage to tree fruits and other crops. Several buildings unroofed, poultry killed, crops cut to pieces over 12 square miles or more. Estimated 200,000 bushels of fruit destroyed. Considerable damage to crops over small area. Stones up to 1 inch diameter. Heavy hall caused some roofs to cave in. \$25,000 crop damage included in total. Electric and telephone services disrupted over wide area. Several fires and traffic accidents. East Nashville and north Davidson County felt the whiplash of hall in early afternoon. Violent lightning bolts caused nearly all damage and interruption to utilities. Belle Meade hard hit and numerous trees toppled in the area.
Lawrence County, Ind	9	7 p. m	15		22,000	Wind and hail	Stones up to 34 inch diameter. \$18,000 crop damage included in
Elephant Butte and vicin-	10	1 p. m		l .	i i	Hail and wind	total. Some fruit damaged; principal damage to buildings and cars.
ity, N. Mex. Albany, Ga	10	2:30 p. m				Wind	plate glass windows and window panes broken; many trees blown or delimbed, blocking streets and causing damages to other property; power and telephone lines blown or torn down, disrupting services 3 to 4 hours; house roofs damaged to some extent; a large sign board torn from its moorings; and skating rink blown over, injuring 1 person. No damage to crops other than some corn blown down.
Everglades National Park,	10	2:45 p. m		0		Tornado cloud	Cloud 5 miles northwest of Royal Palm Ranger Station; did not reach ground.
Fla. Catawba, Cabarrus, Cleveland, Iredell, Burke, Rowan, and Rutherford	10	Late afternoon				Hail and wind	Hailstones reported at some places size of hens' eggs. Heavy damage to crops and some damage to buildings.
Counties, N. C. Polkton, Anson County, N. C.	10	do		2		Electrical	Children were apparently touching metal clothes line attached to tree that was struck. No property damage reported.
Wauchula, Fla	10 10			1		Hail do	Man killed by lightning. Slight damage to alfalfa. Gardens and fruit damaged.
Mex.		2:10 p, m			500	do	Gardens and fruit damaged.
Carpenter, Wyo Fort Lupton, Colo	11 12	3:45 p. m		1		Rain and electrical_	Slight damage to growing crops.  Woman struck by lightning while standing under large tree.
Roseau and vicinity, Minn.	12	9:15-10 p, m	: <del>-</del>	<b>-</b>		Thundersqualls	2 others injured, but not senously.  Slight damage to farm buildings, machinery and power lines.  Storm moved southeastward. Moderately heavy rains, light-
Sherman County, Kans	13	3:45-6 p. m	13-4			Hail and tornado	Hail fell over strip 15 miles long. Some wheat suffered 100 percent loss. 4 distinct tornado funnels observed. 2 reached ground. Tornadoes originated 7 miles north and 4 miles east of Goodland and disappeared 7 miles north of city, moving almost due west. Fences destroyed.
Potter and Carson Counties, Tex.	13	4:55 p. m	17	0	16, 500	Tornado, with hail	Woman struck by lightning while standing under large tree. 2 others injured, but not seriously. Slight damage to farm buildings, machinery and power lines. Storm moved southeastward. Moderately heavy rains, lightning, and hail caused slight damage.  Hail fell over strip 15 miles long. Some wheat suffered 100 percent loss. 4 distinct tornado funnels observed. 2 reached ground. Tornadoes originated 7 miles north and 4 miles east of Goodland and disappeared 7 miles north of city, moving almost due west. Fences destroyed.  Formed 10 miles northeast of English Field and moved northeastward to town of Panhandle. Heavy hail, average size 4 inches in diameter; 1 stone measured 8½ x 5½ inches and weighed 4½ pounds, 45 minutes after storm. Part of path above ground; most of path in open country. Believed to be same storm that hit Panhandle. Tex.  Heavy hail damage to wheat, estimated at \$40,000. As tornado reached edge of town, it veered to left and then lifted, after damaging only 1 home.
Panhandle, Carson County, Tex.	13	5 p. m	17	0	41, 100	do	Heavy hall damage to wheat, estimated at \$40,000. As tornado reached edge of town, it veered to left and then lifted, after damaging only 1, home.
Wisconsin Rapids and vicin-	13	Afternoon			20, 000	Thunderstorm	2 dairy barns demolished, and several smaller farm buildings
ity, Wis. Hagerman and vicinity, N. Mex.	13	P. m	********	<b>-</b>		Hail	damaged.  Difficult to assay damage of any one storm in this area, as there had been several during the latter part of April and early May. Cumulative damage to crops over this period estimated around \$200,000. Many windows broken and roofs damaged.  Estimated \$300,000 hall damage to wheat, oats, corn, and cotton Many farm and town residences need reroofing.  Storm moved northeastward along a path 4 miles long, mostly small.  Storm gageral over county, severe in southern portion. Caused
Ringgold, Tex	14	5:30 p. m	18		400, 000	Wind and hail	Estimated \$300,000 hail damage to wheat, oats, corn, and cotton
Ellis County, Kans	14	7 p. m	440		50, 000	Hail	Storm moved northeastward along a path 4 miles long. Stones
Weld County, Colo	14-18				1, 500, 000	Rain, hail, and wind	mostly small.  Storm general over county, severe in southern portion. Caused damage to crops, livestock, farm lands, and roads. Land inundated; bridges and grades washed out.  Considerable damage to crops over small area.
1					4	1	annea, oringes and grades wholed out
Stuart, Va	15	11:10 a. m12		<i></i>		Hail	Considerable damage to crops over small area.
Stuart, Va	15	noon.			500	Hail, rain, and light- ning.	Considerable damage to crops over small area.  Damage mostly to truck crops.

Medicine, Percy Wy.  31 of June 19 p. m. 147    4	Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Modicine Pore, Yyo. 15   6 pt. 1.   1	Dumas, Tex	15	4:30 p. m.		0	500, 750	Tornado and hail	Tornado damage light; confined to trees, 2 barns, and some resi
Amagillo, Tex.	Medicine Bow, Wyo	15	Afternoon				Electrical	dences. Hail damage to wheat estimated at \$500,000. Slight damage when lightning hit building.
Selege fok County, Kans.  15   Evening C.  16   320 p. m.  16   320 p. m.  17   320 p. m.  18   320 p. m.  19   320 p. m.  19   320 p. m.  10   320 p. m.  10   320 p. m.  10   320 p. m.  11   320 p. m.  12   320 p. m.  13   320 p. m.  14   320 p. m.  15   320 p. m.  16   320 p. m.  17   320 p. m.  18   320 p. m.  19   320 p. m.  10   320 p. m.  10	Gruver, Tex				ļ			.   Several thousand acres of wheat severely damaged by hail. One house
Pawase County, Kass.    15   130 p. m.   0   0   0   0   0   0   0   0   0					-			LO Storm cellars
Pawsee County, Kans. 15   130 p. m. 0   0   0   0   0   0   0   0   0   0	Sedgwick County, Kans	15						
Denver County, Idaho.  16 330-4-20 p. m. 18 0	Pawnee County, Kans	15						Miniature twister apparently struck only 1 farmstead, 1 mile east of
Power Country, Idaho		16	3:30 p. m		0		do	Observed from Denver, in isolated section; little damage resulted.
Appling County, Ga.    Afternoon	Power County, Idaho	16	3:40-4:20 p. m	13			Rain	1.40 inches rain recorded at American Falls in 40 minutes. Some
Stuart, Guthrie County, Invas. 16   Late afternoon	Appling County, Ga	16	Afternoon			15, 000	Wind and hail	topsoil washed on steep hillsides, with small loss in winter wheat on 2 or 3 farms in vicinity of Neeley.  3 sections of county affected, heaviest damage south-central near Surrency, where home heavily damaged by high winds; many power and telephone lines down and other misellaneous proposed.
Wiehita County, Kans. 16 10 p. m. 440 25,000 Hall merch, damment la flores and 5 barras. Dozona of trees leveled pluries reported. Hall merch companied storm. No persons of trees leveled pluries reported. Hall merch damment in accompanied storm. No persons with the provided pluries reported. Hall merch damment in accompanied storm. No persons with the provided pluries reported. Hall merch damment in a companied storm. No persons with the provided pluries reported. Hall merch damment in a first more designation. No persons with the provided pluries reported to the severe the provided pluries reported. Hall merch damment in a first more designation. No persons with the provided pluries reported to the provided pluries reported to the severe the provided pluries reported to the provided pluries and provided pluries reported to the provided pluries and provided pluries provided pluries and provided pluries								erty damage. Hail, varying in size from small marbles to hens' eggs, caused heavy losses to crops, chiefly corn and tobacco, the Surrangy grees also in grees may the Alternaha Pizza and
Wiehita County, Kans.   16   10 p. m.   440   25,000   Hall   Tornado, hall, and I listo p. m.   50-75   1 13,000   Tornado, hall, and I farm home demolished. Storm apparently originated southwest of Goddwell of Stard and I farm home demolished. Storm apparently originated southwest of Goddwell of Stard and I farm home demolished. Storm apparently originated southwest of Goddwell of Stard and I farm home demolished. Storm apparently originated southwest of Goddwell of Stard and I farm home demolished. Storm apparently originated southwest of Goddwell of Stard and I farm home demolished. Storm apparently originated southwest of Goddwell of Stard and I farm home demolished. Storm apparently originated southwest of Goddwell of Stard and I farm home demolished. Storm apparently originated southwest of Goddwell of Stard and I farm home demolished. Storm apparently originated southwest of Goddwell of Stard and I farm home demolished. Storm apparently originated southwest of Goddwell of Stard and I farm home demolished. Storm apparently originated southwest of Goddwell of Stard and I farm home demolished. Storm storm of a bound the origination of Stard and I farm home demolished. Storm storm of a bound the origination of Stard and I farm home demolished. Storm stormed to about storm and bound and in the storm the control of Stard and I farm home demolished. Storm stormed of a bound and I farm home demolished. Storm stormed of a bound and I farm home demolished. Storm stormed on the storm count of the control and the apparent purpose of the storm in the storm and the storm home demolished. Storm stormed on the storm count of the storm purpose of the storm purpose of the storm and the storm purpose of the storm and the storm occurred from a full storm apparent purpose or the storm occurred from a full stor		16	Late afternoon		0		Tornado	church, damaging 1 home and 5 barns. Dozens of trees leveled.
Tensa County, Okla	Wichita County, Kans	16	10 p. m.	440		25, 000	Hail	injuries reported.
Ban River, Mont.  State of Stratford, Tox.; moved to about 3 miles northwest of Godwell Clab.  Wild.  Electropover lines stamsed by falling tree, popured out of severy Clab.  Wild.  Electropover lines stamsed by falling tree, popured out of severy Clab.  Wild.  Electropover lines stamsed by falling tree, popured out of severy Clab.  Wild.  Electropover lines stamsed by falling tree, popured out of severy Clab.  Harmon and Greer County.  Harmon county. About 15 farms affected in Greer County.  Macade, Gray, Ford, and Jetmore Counties, Kans.  17 1-4 p. m. 1-5 1 902,000 do.  Path began about 7 miles north of Palans which high wind. Harmon county. About 15 farms affected in Greer County.  Morton County, Kans.  17 1-30 p. m. 15,000 Hall Stamped and the search of		_	· ·				1	in diameter.
Willard, Box Elder County, Utah.  Harmon and Greer Counties, Cass, Ford, and Planting Counting County, Ford, and Petinger Counties, Kans.  17   1205-2 p. m.   110,000   Hall and wind   110,000   Hall		_	-			,	rain.	of Stratford, Tex.: moved to about 3 miles northwest of Goodwell.
Harmon and Greet Countes, Kans.  Meade, Gray, Ford, and Jetmere Counties, Oklas.  Meade, Gray, Ford, and Jetmere Counties, Kans.  Notion County, Kans.  17  130 p. m.  15, 00  184 ll.   15, 00   15, 000   15, 000   16, 000   17, 000   18, 000   19	Willard, Box Elder County.		4-8 a. m	8, 000			Flash flood	Following local heavy rains, a deluge of water poured out of several canyons over adjacent farm lands and orchards, cutting guilles. Silt and rock deposited on highway, stopping traffic for about 5 hours. Estimates of damage range from several thousand to
Meade, Gray, Ford, and Jetmore Counties, Kans.    1		17	12:05-2 p, m			110, 000	Hail and wind	Damage to wheat nearly ripe in area 5 x 10 miles in east-central Harmon County. About 15 farms affected in Green County,
Norton County, Kans. 17 134 p. m. 15,000 Hail. Storms size of golf balls. Storm occurred from 4 miles north and mile east of Norton to near Nebraska line. Principal loss t miles, touching ground at 6 places miles from the path out through woodlot. No personal injuries.  Lexington (south of), Daw-Sont County, Nebr. Franklin. County, Nebr. Franklin. County, Nebr. Touching, Nebr. To	Meade, Gray, Ford, and Jetmore Counties, Kans.	17	1–4 p. m	15	1	902, 000	do	Path began about 7 miles north of Plains with high wind. Hail and wind caused much wheat loss in southern Meade County and in Gray County near Ensign. Continued northeastward into western Ford County, ending in southern Hodgeman County,
Amery (near), Wis	Norton County, Kans	17	1:30 p. m			15, 000	Hail	Stones size of golf balls. Storm occurred from 4 miles north and 1 mile east of Norton to near Nebraska line. Principal loss to
Non County, Nebr. Naponee (near). Franklin County, Nebr. County, Nebr. County, Nebr. County, Nebr. County, Nebr. County, Nebr. Spur, Tex	Amery (near), Wis	17	_					Path northeastward for about 8 miles, touching ground at 6 places.  Buildings damaged on several farms, and a path cut through a
Naponee (near), Franklin County, Nebr. Leicester Township, Clay County, Nebr. Butte (southeast and east of), Boyd County, Nebr. Spur, Tex	Lexington (south of), Daw-	17	2:30-4 p. m	12-4		9, 950	Hail	Damage to alfalfa and wheat. Path 20 miles long.
Leicester Township, Clay County, Nebr. County, Nebr. Butte (southeast and east of), Boyd County, Nebr. Spur. Tex.  17 5:30-5:45 p. m. 170 0 10, 200 Caddo County, Nebr. Spur. Tex.  18 12:30 p. m. 200 0 110, 200 Tornado  19 5.m. 400-800 0 105, 500 Tornado  10 10, 200 10,	Naponee (near), Franklin	17	3:45–4 p. m			500	Hail and wind	Wind caused most of damage to farm buildings.
Butte (southeast and east of), Boyd County, Nebr. Spur, Tex.  17 5:30-5:35 p. m. 170 0 10,200 do. (Stilled chickens, smashed autos, tore down barns and other buildings. No stock or crop loss. No stock of Binger nothward to point described in graph or crop loss. No stock of Binger nothward to point described in graph or crop loss. No stock of Binger nothward to point described in graph or	Leicester Township, Clay	17	5 p. m	400-800	0	105, 500	Tornado	windmills and fences blown over. Damage to buildings, etc. \$100,000; to poultry \$2,500; crops in storage \$3,000; slight damage
Spur, Tex. 17 5:45 p. m. 300 0 37,000 do 12 farm homes wrecked; damage to several wheat fields. 8 person injured. No injuries. Path 6-7 miles song. Tornado traveled from a poin 4-5 miles southeast of Binger northward to point 4/5 mile north farming northeast of Binger where 9 homes and 1 church blown away. From there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct to make the it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct to make the it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct to make the it moved northwestward 2-3 miles, then in northerly direct to make the it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct to make the it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct there it moved northwestward 2-3 miles, then in northerly direct to miles in the proving them.  Tornado and hail tornado northwestward 3-5 ever	Butte (southeast and east of), Boyd County Nebr	17	5:30-5:45 p. m	170	0	10, 200		Killed chickens, smashed autos, tore down barns and other buildings. No stock or crop loss.
Caddo County, northern part, Okla.    17		17	5:45 p, m		1	75,000	do	12 farm homes wrecked; damage to several wheat fields. 8 persons
Superior (west of), Nuckolls County, Nebr.  Hastings (near), Adams County, Nebr.  Lincoln County, Okla	Caddo County, northern part, Okla.	17	6:20 p, m	300	0	37, 000	do	No injuries. Path 6-7 miles long. Tornado traveled from a point 4-5 miles southeast of Binger northward to point 4/5 mile northeast of Binger where 9 homes and 1 church blown away. From there it moved northwestward 2-3 miles, then in northerly direc-
County, Nebr. Hastings (near), Adams County, Nebr.  17 7:45-8 p. m. 11½ 0 250,000 Wind and hail (tornadic characteristics).  18 12:30-1:10 a. m. 12	Superior (west of), Nuckolls	17	7-7:30 p. m	880		7,000	Hail	
Lincoln County, Okla	County, Nebr. Hastings (near), Adams			1 1 <b>3</b> -2	o	250,000	Wind and hail (tor- nadic characteris-	Automobile tops damaged slightly, shingles broken, wood truss building roofs with corrugated asbestos roofing extensively dam-
Haskell, Tex	Lincoln County, Okla	17	7:59 p. m	200	0	110,000		13 injured, mostly school students. School bus with children in it overturned. Probably 2 or 3 tornadoes close together, all mov- ing northeastward. Several buildings, including schools and churches in eastern part of Meeker damaged or destroyed. Sev-
Labette and Cherokee Counties. High winds over southern Labette and Cherokee Counties. High winds over southern Labette and Cherokee Counties. Plate glass broken, small buildings blown over, trees uprooted, and wheat blown down. A few larger buildings unroofed. Power lines broken and telephones review interrupted.  Dumas, Moore County, Tex. 18 12:30 p. m. 122 50,000 Hail Difficult to estimate hall damage to wheat due to previous storm and light nature of this one. Three funnel-shaped clouds were observed, but none touched ground.	Haskell, Tex	17		25	0	2,000	Tornado and hail	eral farm homes damaged.  Small outbuildings destroyed, also 1 barn; 1 cow killed. All damage from tornado. Hail moderate, size of marbles to hens' eggs.
Dumas, Moore County, Tex. 18   12:30 p. m   122     50,000   Hail		18	12:30–1:10 a, m		0		Tornado and wind	Small tornado near Chetopa. High winds over southern Labette and Cherokee Counties. Plate glass broken, small buildings blown over, trees uprooted, and wheat blown down. A few larger buildings unroofed. Power lines broken and telephone
Cheyenne, Wyo	Dumas, Moore County, Tex.	18	12:30 p. m	1 22		50,000	Hail	service interrupted.  Difficult to estimate hail damage to wheat due to previous storm and light nature of this one. Three funnel-shaped clouds were
	Cheyenne, Wyo	18	1:35 p. m		1		Tornado	Three tornado funnels sighted, but none reached ground.

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Sherman, Cheyenne, Raw- lins, Thomas, Sheridan, Decatur, and Norton Counties, Kans.	18	3:30 p. m. to midnight.	18		2, 375, 900	Wind and hail	A number of short paths occurred in connection with main storm, which began with high wind near Goodland. Hail damage extended from northern Sherman and southern Cheyenne Counties eastward along Rawlins and Thomas County line and into northern Sheridan County, thence across Sheridan into northern Norton County. Some buildings damaged and much wheat total loss. Roof and glass damage reported, and some loss of poultry and young livestock. Some stones as large as baseballs. Most damage in Columbus and area south a few miles. Some loss of county and its store of solve hells deprayed flat roofs serveries.
Cherokee County, Kans	18	Afternoon		   <b>-</b>		do	poultry and young livestock. Some stones as large as baseballs.  Most damage in Columbus and area south a few miles. Some loss
Gould and vicinity, Okla	18	6:30-7:30 p. m	15		410,000	do	1 of clops. Half size of golf dails dailiaged hat foots especially.
Harvey County, Kans Butler County, Kans	18 18	6:45 p. m 7:22 p. m		0	0	Tornadodo	Tornado did not come to earth.
Altus (northwest of), Okla	18	7:30-8:15 p. m	<sup>1</sup> 15	0	200, 000	Tornado and hail	Principal damage to wheat by hail at Duke. Tornado funuel seen near Altus moving northeastward. Storm path about 30 miles long. Victory and Friendship communities affected.
Norman and vicinity, Okla	18-19	7:30 p. m2:30			500, 000	Wind and rain	Nearly 8 inches of rain in a few hours coured severe democrate
Marshall County, Kans	18	a. m. 8:30 p. m	100	0	500	Tornado	buildings, roads, etc. 75 percent of damage from rain.  Baby twister originated just west of Marysville and jumped to northeastern section of town, demolishing cow shed.  Funnel observed and reported; warning caused much confusion at
Kiowa County, Okla	18	8:38 p. m	40	0	11, 450	đo	HODSEL STRICK HODSELSTROOT DESTROYING DRIEGE LIVED TROVED
Harper and Sumner Coun- ties, Kans.	18	Evening		0	0	do	which reached ground
Panhandle, Carson County, Tex.	18		<b>-</b>			Hail	Heavy hall, largest size of silver dollar. Considerable damage to crops, but hard to estimate on account of previous halistorms recently.
Wayne County, Ohio	18		<b>-</b>			do	Storm occurred a few miles south of Wooster. Hailstones found in fence rows to a depth of 12 inches. No crop damage reported as
Craig County (northern	19	12:20 a. m	440	0	1,000	Tornado	season early.  1 injured. Path northeastward near Hollow, length not known.
part), Okla. Tulsa County, Okla	19	1–4 a. m		0	50,000	do	
Joplin (western edge), Mo	19	1 a. m			4, 000	Wind and thunder- storm.	eastward in a quarter-mile path.  Some trees blown over, limbs torn off others, a few buildings unroofed, signs torn down, wires damaged, and wall of building pushed in. 1 person slightly injured. 600 phones out and about
Mountainburg, Ark	19	Morning				Wind	400 window panes broken; greenhouses the heaviest damage. Buildings unroofed and trees uprooted. Water plant damaged
Northport (near), Morrill County, Nebr.	19	12:05-12:30 p. m <sub>-</sub>	300	0	5, 750	Tornado and hail	\$1,000. Tornado damaged beets and small grain. Hail caused further damage to beets and hay. Crop damage \$5,000; loss of baby chicks \$50; damage to buildings \$700. Path 4 miles long.
Waddington, N. Y	19	1:25 p. m				Wind	Northerly winds, estimated at 50 to 60 m. p. h. for 12 minutes damaged shrubbery and gardens. Falling and broken trees brought down power lines which interrupted service for several
Chase County, Nebr	19 and 23	5:30-7:25 p. m 5:50 a. m7:40,	1 1214	0	2, 345, 000	Tornado and hail	hours.  Damage to wheat \$2,250,000, other crops \$65,000: to buildings from wind \$30,000. Tornado occurred in southwestern Chase County.
Butler, Stoddard, Dunklin, and New Madrid Coun- ties, Mo.	19	p. m. 3:45-4:20 p. m <sub></sub>	1 1/2-2	1	880, 000	Tornado, wind, and hail.	Storm first reported at Rombauer and Fisk in northeastern Butlet County, moved east-southeastward to Mississippi River about 1 miles south of New Madrid. Parma area hardest hit. According to Red Cross figures for entire area: A baby killed, 60 injuries; 46 homes destroyed, 287 damaged; 130 barns destroyed, 115 damaged Other types of buildings destroyed numbered about 170, with about 180 damaged, besides damage to 12 business places, 2 churches, 1 school, and numerous power and phone lines. Crog damage and losses to livestock estimated at about \$100,000 of the total loss: probably about \$75,000 of that due to hall.
Joplin, Mo	19	5 p. m				Thunderstorm and hail.	About 600 window panes broken by hail, mostly in greenhouses, but plant damage slight.
Washington County, Okla	19	5:15 p. m		0	4, 500	Tornado	1 injury. Several funnel clouds observed in various parts of county, but no damage other than near Dewey where 3 farm sections affected.
Hitchcock County, Nebr	19	7–7:20 p. m			805, 000	Hail	Losses to wheat and alfalfa, \$800,000; to buildings, \$5,000. Path 15 miles long.
Mahoning County, Ohio	19	Evening				Wind	In Youngstown a few buildings, mostly garages, damaged or un- roofed; a number of windows broken; a good many trees broken or uprooted; damage in a cemetery estimated at \$5,000.
Hereford, Deaf Smith County, Tex.	19				200, 000	Hail	Damage to wheat and potatoes.
Sheridan Field (8 miles east of), Wyo.	20	Afternoon				do	Light damage to alfalfa.
Wray, Colo	20	12:45-2:30 p. m	440	0	200, 000	Tornado, hail, and rain.	Forming at Beecher Island, about 8 miles south of Wray, tornado struck first at various points eastward, and moving over Colorado Nebraska line, destroyed many farm buildings in its path. Some hail accompanied storm, but practically all damage from
Haigler (near), Dundy County, Nebr.	20	2-2:25 p. m		. 0	13, 100	Tornado	tornado.  Moved northeastward, skipped a considerable stretch but swooped down on 2 farms, demolishing buildings; small amount of live-
Mound City, Ill	20	2:30 p. m			100, 000	Wind and hail	stock lost. I personal injury.  Storm covered 40-square-mile area, most damage caused by wind.  I new building demolished and many other structures damaged.  Considerable strawberries and tree fruits destroyed. A few
Scott and Lane Counties, Kans.	20	4-6 p. m	200	0	200, 000	Tornado and hail	persons slightly injured.  Storm began 12 miles southwest of Scott City and ended 6 miles northeast of Healy, in Lane County. Tornado cloud observed.  Hall in scattered portions of counties. Farm buildings and
Sheridan County, Kans	20	4:30 p. m	1 3		70, 000	Hail	crops damaged over 25-mile path. Storm moved northeastward about 35 miles across central portion
Rawlins, Decatur, Cheyen- ne, and Thomas Counties,	20	Late afternoon		0		Tornadoes	of county. Hallstones mostly ½ inch or less in diameter.
Kans. Balko and Beaver, Okla	20	5:10-5:20 p. m	100	1	1, 500	do	

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Barren Creek Community and Goin Section, Tenn.	20	6 p. m	1, 500	0	37, 500	Tornadic, wind and hail.	Storm traveled eastward for 5 miles. 3 persons injured. Hail, up to size of hens' eggs, and cloud burst destroyed new crops and washed away much topsoil in 2 communities. 5 houses and 2
Ellis and Woodward Counties, Okla.	20	6–7 p. m	100	0	400,000	Tornado, wind, and hail.	barns blown away. Crop damage \$25,000, included in total. Damage estimated at \$340,000 for tornado, \$50,000 for hail, and \$10,000 for high wind. 5 or 6 funnels observed in Ellis County. Tornado cloud touched ground at intervals. Funnel observed approaching airport near Gage from west, apparently from Shattuck but not seen touching ground; so, may have been high wind damage to aircraft and hangar at Gage. Accompanied by hail, \$50,000 damage to crops in Ellis County; hailstones unusually large and jagged, some more than 3 inches in diameter at Woodward Field station. \$250,000 damage to airport property west of Woodward. Considerable farm property destroyed. 3 injuries at Woodward air base. Path about 35 miles long; storm appeared to move northeastward then eastward then northeastward.
Ellis County, Kans	20	6:30 p. m			50,000	Hail	Hail of varying intensity fell in numerous places; most damaging in western portion. Wheat principal loss.
Gray, Ford, Hodgeman, and Pawnee Counties, Kans.	20	6:30-7 p. m	· 	0	510, 000	Tornadoes, wind, and hail.	Numerous funnel-shaped clouds followed irregular courses along general storm path from Copeland, in Gray County, northeast-ward into western Pawnee County. Damage resulted as tornadoes dipped to earth occasionally near Copeland, Howell, Hanston, and Rozel. Several persons injured at Rozel. Much property damage and some wheat loss from hail. 4 funnels seen near Dodge City.
Russell County, Kans	20	7–8 p. m	11			Wind	Path of destruction from about 3 miles northwest of Gorham to 6 miles southeast. No well developed funnel observed. Debris indicated twisting winds. A school house partially destroyed; roofs, porches, and small buildings damaged. 24 freight cars blown from tracks.
Barton County, Kans	20	7–8 p. m	12		100, 000	Hail and wind	Some roofs damaged, much glass broken, considerable wheat loss, and many power and telephone lines out. Several storm paths across county.
Comanche County, Kans	20	7:30 p, m	100	0	200, 000	Tornado	about 34 mile north of Coldwater to Wilmore, 12 miles north- west, where business and residential buildings damaged. Damage to crops, buildings, power and telephone lines, and trees all along path; especially severe at Wilmore.
Catesby (near), Ellis County, Okla.	20	7:30 p. m	67	1	8, 000	do	1 injury. Farmstead destroyed.
Lincoln County, Kans	20	7:45 p. m		0	8,000	do	Tornado struck a mile southeast of Lincoln, moving northeastward about 4 miles. Windmills and small buildings demolished; trees
Saline and Dickinson Counties, Kans.	20	8-8:30 p. m	440	1	50, 000	Tornado and hail	broken and uprooted. Distinct funnel-shaped cloud observed.  Storm moved almost north from 7 miles sonthwest of Gypsum to a few miles northeast of Solomon. Railroad bridge near Gypsum partly torn up. Numerous farm buildings, and business and residential property in Solomon damaged. Crops in several scattered localities destroyed to great extent by hall. 5 persons
Rice County, Kans	20	8:40 p. m	880	0		Tornado	injured. Some evidence of second tornado in vicinity.  Small tornado hit Chase, moving eastward along main street. A few houses and business buildings damaged. 1 person injured.
Custer County, Okla	20	8-9 p. m	1, 760	0	305, 000	Tornado and hail	Communication lines cut. Path extended about 1 mile.  Damage estimated at \$105,000 for tornado; \$200,000 (60-85 percent wheat crop) damage by hail. Path east-northeastward 27 miles, 1 injured at Butler, and 2 injured at Thomas. 5 farm bouses destroyed, many damaged; much barn damage in affected areas, 25 places damaged at Thomas. Cotton gin destroyed at Butler. At farm 4 miles west of Thomas, 13 cattle in feed lot lifted out of pen and came down unhurt 14 mile away; 1 cow left in pen unhurt. Farmer 5 miles west of Thomas warned community.
Woodward County, Okla	20	8:30 p. m		0	14,000	Tornado	Several farmsteads damaged west of Vict. 4 homes unroofed at Moreland. Path from west of Vict through Booster station, 5 miles northeast of Moreland.
Hammon and vicinity, Custer County, Okla.	20	8:30 p. m	1,760	0	17,000	Tornade and hail	Crop damage estimated at \$10,000, property damage at \$7,000; tornado damage estimated at \$14,500, hall damage at \$2,500. Path northeastward, 12 miles long.
Woods County, Okla Sumner County, Kans	20	9 p. m		0	56,000	do	Northeast path about 12 miles long from 12 miles south of Waynoka to 12 miles east and 5 miles north. 3 sets of farm buildings completely blown away. Moderate hall preceded tornado; considerable damage by hall, but amount not estimated. Tornado hit 9 miles southwest of Wellington, damaging several
	20	9 p. m	i	0		Tornado	farm homes and barns.  1 death at Yewed. 2 injured at Nash; 25 injured in Alfalfa County.
Alfalfa and Grant Counties, Okla.	20	9-9:80 p. m	1 12	1	2, 500, 000	Tornadic and hail	Appeared as if in high wind and hail area there may have been 1 or more tornadoes. Possibly a tornado at Nash, Grant County. Crop damage estimated at \$1,000,000; buildings and other property damage at \$1,500,000. Path from 1 mile north of Cherokee to Nash.
Rogers, Ark Dickinson and Geary	20	Evening 9-9:30 p. m					Damage to power and telephone lines. Path of tornado extended from Hope, in south-central Dickinson
Counties, Kans.	20	9-9:30 p. m		"		Tornado	County, to a few miles north of Junction City, just missing that city on the northwest. Power and communication lines torn
Lyon and Wabaunsee Counties, Kans.	20	9:30-11:30 p. m	300	0	75, 000	do	down and numerous barns, sheds, and some houses destroyed.  Tornado hegan 5 miles northwest of Emporia and moved northnortheastward, ending 6 miles north and 5 miles east of Harveyville. Farm homes, barns, sheds, and telephone and power lines destroyed. 1 person injured. Entire path about 30 miles long, Peculiar roar of tornado heard by many, but no funnel-shaped
Blaine and Kingfisher Counties, Okla.	20	10 p. m	440-1 2	1	68, 500	Tornado and wind	cloud seen due to darkness.  1 death at farm 16 miles southwest of Watonga; 7 injured. 30 farms suffered extensive damage in 55-mile path northeastward across Blaine County from west of Greenfield into Kingfisher County, with zig-zag path to Omega and Loyal; high wind at Dover. Cron damage to wheat estimated at \$45,000. Damage in Blaine
Blaine County, OklaBlaine County, Okla	20 20	Late eveningdo		0	10,000 20,000	Tornado Wind	County, \$27,000; damage in Kingfisher County, \$41,500.  5 farms badly damaged northwest of Watonga.  High winds over much of county in addition to tornado damage areas. School at Greenfield unroofed; several other buildings damaged. Damage to ripening wheat.  Several farm homes severely damaged. Path northeastward for the miles agent to the first them.
Payne County, Okla	20	Night			15,000	Tornado	16 lilles from 872 lilles south of bellivater tot a miles cast.
Pawnee County, Okla	20 20	Night	50-75	0	275, 000 3, 000	Hail Tornado	

Place	Date	Time	Width of path, yards	Loss of li'e	Valye of property destroyed	Character of storm	Remarks
Allen County, Kans	20-21	Midnight				Wind	Store windows damaged; tree limbs and power lines broken
Jay County, Ind Bristow, Creek County, Okla. Pawnee County, Okla.	20 21 21	12:10 a. m Shortly after midnight.	440 300	0 0 0	10,000 15,000 60,000	Tornado Tornado and hail Tornado	Damage mainly in Iola and La Harpe. East of Salamonia. Path 3 miles long. Moved east-northeastward about 1½ miles. 1 minor injury. Path northeastward from southwest of Cleveland to Cleveland, apparently divided at one point; part going south
Oologah, Rogers County, Okla.	21	12:30 a. m	220	0	4, 000	do	east. Major damage to oil refinery and many homes.  2 injured. About 7 miles to let of a tornado that occurred about 3 minutes later in same county.
Rogers and Craig Counties, Okla.	21	1:07-1:10 a. m	100-200	0	30, 000	do	5 tornadoes all moving northeastward as follows:  1. From 5 miles north of Claremore to Chelsea through Estella northeastward for 18 miles.  2. White Oak, northeastward; path 3 miles.  3. South edge of Vinita; several residences damaged and part or roof blown off stockyards pavilion.  4. Definite track, parallel to No. 3, and 1 mile south.  5. At Big Cabin, damage to residences and roof on school gymnasium.
Mountain Grove (north of), Mo.	21	4:30 a. m	880	1		Tornado and elec- trical.	Damage mostly to trees. 1 home, 2 barns, a garage, and a chicker house damaged. Boy killed by lightning at Cabool; probably not caused by this particular storm, but a part of same genera storm condition.
Bentonville, Ark	21	Morning			 	Wind	Considerable damage to automobiles, buildings, trees, and power lines.
Witt Springs, Estill County, Ky.	21	12:30–12:45 p. m	150	0	10, 014	Tornado	Length of path about 6 miles. 4 persons injured by falling building and other debris. 2 dwellings, 3 barns, and several out building damaged. Wires down in path of storm. Some baby chick lost.
Audrain County (southern portion), Mo.	21	2 p. m	880	0	1,000	Wind	Storm hit farming area 7 miles south and southwest of Mexico Homes and buildings damaged on several farms. Some tree
Southern Pike and extreme northern Lincoln Coun- ties, Mo.	21	3:30 p. m	384	1	200, 000	Tornado	blown down and limbs of others broken. Small damage to wires A couple of small buildings on farm near Whiteside damaged. Of many farms near communities of New Hartford, Ashley, Cyren and Clarksville, Red Cross reported: 1 person killed, 20 injured 14 homes destroyed, 9 damaged: 31 other buildings destroyed 26 damaged. Only 5 percent of total damage was to crops an livestock. Storm dissipated into Mississippi River a shor distance south of Clarksville.
Man and vicinity, W. Va	21	3:30 p. m				Wind, rain and hail.	4 persons injured and much property damaged. Roots blown of several houses, grandstand, and store. Wooden cross on church snapped off and tops of trees twisted off; display signs blow
Pittsburg, Van Buren County, Iowa.	21	4 p. m	440	0	30, 000	Tornado	down and plate glass windows blown in.  Path about '4 mile long in neighborhood of Pittsburg, a smal community 3 miles northwest of Keosauqua. 8 houses damaged plus several barns and smaller buildings. No personal injurie
Reedy and vicinity, W. Va	21	4:05–4:20 p. m	440		7,000	Wind, hail, and rain.	scores of trees blown down; 2 automobiles damaged by fiyin debris; power and telephone services temporarily disrupted 1 home blown off its foundation; 3 horses killed by lightlang
Northeastern Franklin and northern St. Louis Counties, Mo.	21	4:30-4:50 p. m	134	0	500, 000	Tornado and hail	considerable damage to garden and farm crops.  Storm probably originated near Washington where it destroyed barns and 21 other buildings and damaged 3 homes, 1 barn, and 11 other buildings. It then lifted, or dissipated and another on formed along the same path about 25 miles northeast, near Crev Coeur, where next reported, but no damage there. It then struck near southwestern edge of Lambert Field Airport, about 10 mile further to northeast; damage done to trees, buildings, and air planes. However, it lifted and passed over the field without any further damage and did not dip to earth again until about 7½ miles northeast of airport, where most of damage occurred in Missouri, then continued to Wood River, Ill. In St. Louis County, Red Cross reported 2 persons injured, 2 homes destroyed and 11 damaged, 5 buildings of other types destroyed and 11 damaged Damage to crops estimated at \$75,000, mostly due to hail. Hal also damaged at least 75 automobiles to amount of about \$9,400.
Mt. Sterling, Ill	21	4:30 p. m	200	0	40, 000	Tornado	Storm first struck 4 miles southwest of Mt. Sterling and moved northeastward 12 miles through rural sections. 8 farm propertie hit, with several barns destroyed or damaged, and several home badly damaged. Crop and livestock loss negligible.
Wood River, Ill	21	4:55 p. m	500	5	1, 300, 000	do	Storm originated in Missouri northwest of St. Louis and struck Wood River after crossing Mississippi River. About 200 house and 150 other buildings destroyed and several hundred structure suffered some damage. An oil refinery badly damaged. 2 traile camps wiped out, about 25 trailers completely destroyed. 6 persons injured. In nearby rural areas several farms hit and 500 acres of timber destroyed. 50 head of livestock lost, but crodamage negligible.
Palestine, Ill	21	5 p. m	50	4	70, 000	do	Struck west end of Palestine, demolishing restaurant, water pumping station, and 3 houses, and damaging about 20 other buildings 7 persons injured. Most of dead and injured were in restaurant Path northeastward into Indiana.
Chapmanville and vicinity, W. Va.	21	5 p. m		<b>-</b> -		Wind, hail, and rain.	Hailstones, disc shaped, up to 1¼ inches in diameter and ¼ incl thick; hail covered ground until white.
Sullivan and Clay Counties, Ind.	21	5 p. m	150	14	1, 000, 000	Tornado	Moved into State from Palestine, Ill., through Shelburn, Clay City Bowling Green, Poland and Lewis. Path northeastward Complete destruction of houses in path of storm. \$10,000 croj damage included in total. 251 persons injured.
Vigo County, Ind	21	5:15 p. m	200	3	500, 000	do	Began in extreme east edge of city of Terre Haute, about 2½ mlle east-southeast of Paul Cox Field, moved north-northeastwar to just southwest of village of Burnett. 5 persons injured.
West Point, Lee County, Iowa.	21	5:30 p. m				Wind	Severe local windstorm or possibly tornado struck 2 miles north of West Point, causing considerable damage on 5 farmsteads. N personal injuries.
Northern Bollinger and northwestern Cape Girar- deau Counties, Mo.	21	5:45 p. m6:30 p. m.	220	1		Tornado	According to Red Cross reports, storm killed a man about 10 mile north of Marble Hill; injured 6 people; destroyed 7 homes, 7 barns and 14 other types of buildings; and damaged 6 homes and building. Little tillable land where tornado struck. No live

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Cape Girardeau County (southern part), Mo.	21	6:55–7 p. m	200	23	4,000,000	Tornado	ber 27, 1927. Red Cross reported 130 injured, many seriously; 202 homes destroyed, and 231 others damaged, 19 places of business destroyed and 14 damaged, besides serious damage to church. Practically all damage occurred on west and especially north sides of Cape Girardeau along path about 10 miles long, traveling from about 3 miles southwest of city diagonally to northeast. Path clearly visible through forested area as seen across Mississippi River into Illinois, but no damage reported there.
Texarkana, Ark	21, 23, and 24	7 p. m				Hail and wind	Wind 50 m. p. h. caused minor damage to signs, roofs, and trees.
Marked Tree, Ark		9:30 p. m	400	0	3,000	Tornado and hail	Small tornado unroofed cotton house gin. Several houses damaged and trees uprooted.
Bradford, Ark Mt. View, Ark Red Boiling Springs, Macon County, Tenn.	21 21 22	Evening2 a. m		0	300, 000	Wind and hail Electrical and wind. Tornado	Trees blown across highway; slight property damage.  Only slight crop damage. Many livestock killed or injured.  Houses unroofed and wrecked, barns flattened, and many trees
Somerset, Pulaski County, Ky.	22	2-2:05 a. m	440	1	750,000	do	<ul> <li>uprooted.</li> <li>High winds lasted for about an hour. Several dwellings badly damaged; a large tobacco warehouse and wholesale grocery store completely destroyed.</li> <li>2 large garages damaged. Little damage</li> </ul>
Irvine, Estill County, Ky	22	3 a. m				Wind	to livestock or crops. Grandstand unroofed at ball park. Trees blown down. Total
Ripley and vicinity, W. Va	22	2-2:20 p. m	12	0	·	Near tornadic, bail,	damages will run into many thousands of dollars. Hailstones ¾ inch to 1½ inches in diameter. Neon signs, window
Bluefield and vicinity, W. Va.	22	2:05-2:16 p. m				and rain. Hail	panes, roofs, garden and farm crops damaged. Hailstones from size of marbles to 1½ inches in diameter. Considerable damage to roofs, windows, signs, automobiles, gardens, and trees; telephone communications disrupted.
Glenville and vicinity, W.	22	2:25 p. m	1		i	do	Considerable damage to crops, roofs, and windows.
Charleston, W. Va	22	2:45-3:10 p. m 3-4 p. m				Wind and hall	numerous plate glass windows smashed. Power and telephone services disrupted.
W. Va. Berlin and vicinity, W. Va.	22	3:30-3:50 p. m				do	roofs and gardens.  Hailstones reported up to 6 inches in circumference.
Beaver and Butler Counties. Pa.	22	3:30-4 p. m	440		58, 300	Wind, hall, and rain.	Path southeastward for 20 miles from New Brighton to Harmony Junction, Jackson Township. Slight damage to crops. Most damage to property from wind in area from Zelienople to Harmony Junction. Damage to electrical and telephone installations estimated at \$8,000, and \$300 loss of cow, included in total.
Bayard, W. Va	22	4 p. m			10,000	Wind and hail	
Hastings (near), Adams County, Nebr.	22	4-4:30 p. m		1			About 15 percent damage to alfalfa and wheat. Path 15 miles long.
Hastings (near), Adams County, Nebr. Highland County, Va Mount Clare and vicinity,	22 22	4-7 p. m				dodo	3 hailstorms damaged crops, roofs, and broke a few windows. Some damage to gardens.
W. Va. Rohrbough and vicinity.	22			1	1	do	Considerable damage to gardens.
W. Va. Hornor and vicinity, W. Va. Rotan, Fisher County, Tex.	22 22	5 p. m	1.6			Wind and hail	Some damage to gardens.  Most of damage to trees, shrubbery, and roofs. About 50 percent
Beaver County, Okla		5;40 p. m	1	1		Hail	loss to fruit trees.  Area 20 by 30 miles from Forgau to west, and east around Beaver.  Heavy damage to crops south of Beaver. About \$1,000 damage
Follett, Lipscomb County, Tex.	22	6 p. m	13		1, 200, 000	Wind and hail	to windows and roofs.  Crops in center of path total loss; no material loss to buildings.  Hail damage estimated at \$1,080,000. Storm started just south of Beaver, Okla., and moved southeastward. Wind damage, \$120,000.
Lynchburg, Va	22	6-6:30 p. m				Hail and electrical	Hail up to size of billiard balls cut telephone and power lines. Lightning fired 3 houses.
Abilene, Tex	22	7 p. m	440		60,000	Wind and hail	Hail damage estimated at \$30,000 \$25,000 to crops and \$5,000 to buildings. Wind damage, \$30,000, mostly to buildings. Hall as large as baseballs, but very scattered, reported at Clyde. Holes in 1 roof looked like sledge hammer holes. 3 persons injured.
Cauthornville, Va	22	8-8:30 p. m	440	0		Tornado	Barn demolished, several buildings damaged, trees twisted off, crops destroyed over area 1/4 by 11/2 miles.
Baltimore, Md	22	P. m	<b>-</b>			Cloudburst and elec- trical.	Trees blown down. Busses and cars stalled due to heavy rains.  Power failure caused by lightning and by trees blown across wires.
Allegany, Harford, and Montgomery Counties, Md.	22	P. m				Hail and rain	Heavy hail in Allegany and Montgomery Counties and some hail in Harford County. Some crop damage over State.
Aberdeen, W. Va	22 22	Evening Night				Hail Electrical and rain	Hailstones up to 2 inches in diameter. Extreme damage to crops. 6 persons injured by lightning; 2 houses struck and damaged. Streets in Providence flooded to depth of 6 to 8 inches. Power interrupted briefly in Westerly, Bristol, and Cranston.
Rogersville, Hawkins County, Tenn.	22		ļ			Hail and wind	Considerable damage to crops.
Maynardville, Union County, Tenn.	22					Hail, wind, and rain (tornadic character).	Considerable damage to crops. Considerable erosion. Trees uprooted, several roofs destroyed or damaged.
Southern Garden County and northern Deuel Coun- ty, Nebr.	22				512, 725	Hail and wind	Crops totally destroyed in places, damage estimated at \$512,000; to livestock \$225; to buildings \$500. Path 30 miles long.
Fillmore, Lee County, Ky	22	i					Church lifted from foundation, store unroofed, farm buildings and crops damaged.  House torn from foundation; fences, trees, and other property scat-
Pebworth, Owsley County, Ky. Richmond, Madison Coun-	22		!			1	House form from foundation; tences, trees, and other property scat- tered over countryside. Crops damaged. Radio tower at State Police station damaged.
Kenton County, Ky	22					Wind	Huge tree fell on 4 parked automobiles. No personal injuries. Thousands of dollars damage caused by flooding of streets and
lumbiana Counties, Ohio.	22					Rain and wind	basements and collapse of front wall of 3-story apartment house; many trees uprooted.
Eastern Audrain and south- western Scotland Coun- ties, Mo.	23	2:15 p. m				Electrical and hail	Lightning struck several local transformers in Martinsburg, dis- rupting electrical service. Hall damaged gardens and crops north of Martinsburg near Laddonia, and gardens and some window lights near Bible Grove.

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Union Springs, Ala	23	3:45-4:20 p. m	1 3			Hail	Fall not heavy, but falling stones ranged in size up to hens' eggs, and continued for considerable length of time. Some crop dam-
Lincoln and Chandler	23	4 p. m	1.320		50,000	do	age; a few windows broken.  Path 10 miles long from 4 miles west of Chandler to 6 miles east.
Counties, Okla. Perkins County (western part), Nebr.	23	5 p. m		1	!	do	Most of damage to crops; some window and roof damage.  Crops completely destroyed in places; damage estimated at \$800,000,  crops in storage \$1,000. Roofs badly damaged; many windows
Beaver County, Okla	23	6:15 p. m			75, 000	do	broken: property damage estimated at \$10,000.  Duration of storm about 40 minutes. Heavy hail east of Beaver and Knowles. Area 20 by 30 miles. Some land covered with 3
Greeley, Wichita, Kear- ney, Finney, Haskell, Gray, and Ford Counties, Kans.	. 23	Afternoon		0	2, 500, 000	Hail and tornadoes.	inches of hail.  A combination of approximately 25 separate hailstorms spread from just east of Tribune southeastward to southern Ford County. Finney County suffered greatest damage. Hail varied greatly in intensity and ranged in size from peas to golf balls. Much wheat ruined; considerable glass broken, and roofs and cars damaged. 2 small funnel-shaped clouds observed south of Garden City but caused no damage.
Kingfisher County, Okla	23	7 p. m	200-250	0	105, 200	Tornado and hail	Path 8 miles long from northwest of Hennessey, through Hennessey southeastward. \$72,000 hail and wind damage to crops. \$24,000 tornado damage to buildings, \$9,200 damage to livestock and crops in storage.
Ponca City (western portion), Okla.	23	8 p. m	i	1		Hail and winddodo	Damage to roofs and windows of buildings, and car top  Crop damage, \$40,000. Many windows broken and several build-
Logan County, Okla	23	_		1	1		ings damaged in Crescent.
Barry County (southern part), Mo.	23	8 p. m				Electrical	Barn struck by lightning and burned. Man also struck; recovered later. Storm centered in 5-mile area about 7 miles northeast of Seligman.
Montgomery, Ala Hughes County, Okla	23 23	9:25 p. m 10 p. m		1	l .	Hail and wind	Roof and porch damage to veterans' housing project.  Most of damage by hail in area north of Holdenville, estimated \$19,000. Some damage to trees and buildings in Holdenville.
Garfield County, Okla Wilburton, Okla	23 23	Eveningdo			10,000 500	Hail	Crop damage severe west of Waukomis. Storm moved northeastward, causing some damage to buildings
Comanche County, Kans	23	do		1	1	Hail	along west end of Main Street and in northeastern section.  Storm occurred in southwestern portion of county, causing 100 per
Pawnee County, Kans	23	Night	1	1	1	do	cent loss to some wheat fields in path 3 miles long. Several storms in northern and western parts of county. Most damage in area near Rozel and Garfield.
**	23			1	1		damage in area near Rozel and Garfield. Light damage to alfalfa and winter wheat.
Phillips, Wyo Southampton County, Va	24	2:30-3:15 p. m			26, 000	Hail and rain	Heavy damage to crops by hail and erosion in Capron, Joyner, Sebrell and Triangle areas. Some windows broken and roofs damaged.
Elkins, W. Va	24	3:30 p. m				Electrical	Lightning struck building at airport. Principal damage to CAA communication equipment, lesser damage to Weather Bureau equipment.
Ford County, Kans	24	4 p. m	16		500,000	Hail	Damage extended over strip 20 miles long from northwest of Dodge City to Bloom. Many stones 2 inches in diameter.
Richmond, Va Refugio, Refugio County, Tex.	24 24	7 p. m 7 p. m			37, 000	Electrical	Large barn with hay burned.  Hail damage estimated at \$12,000. Home gardens beaten down; no farms within area. Several garages blown apart and roofs from several small houses blown away. Some small homes blown of foundations. Many trees broken and uprooted. Window panes
Anne Arundel County, Md.	24	p. m				Wind, rain and	broken. 1 person injured. Wind capsized small boat at pier in Round Bay on Severn River.
Pittsfield, Mass	24	Night				thunderstorm. Electrical	Tree branches blown across roads and telephone wires.  1 house struck and destroyed by fire. Damage to power and transmission lines.
Knox County (northern part), Mo.	25	3–5 p. m	18		3,000	Hail	
Madison (near), Morgan County, Ga.	25	4 p. m				do	Area 6 x 8 miles southwest of Madison affected, within which very heavy damages over area 3 x 3 miles, where reports indicate crops completely destroyed. Cotton and corn chief crops affected, with losses likely to exceed \$10.000. Little or no damage to
Linn County (southwestern part), Mo.	25	4:50-5:20 p. m	11			do	damage to gardens, crops, and some roofs at Lacledge, Linneus, Pershing Park area, and in spotted areas nearby, and also near
Cooper County (southwestern part), Mo.	25	8-8:30 p. m	440			Wind and hail	Brookfield.  Some building roofs damaged and some windows broken by the storm which struck Clifton City. Largest hallstones said to be
Morgan County (western part), Mo.	<b>2</b> 5	8:30-9 p. m	1 114		8,000	Hail	the size of ping-pong balls.  Territory covered by hallstorm included Stover and to southwest of town; appeared to be spotty. Stones varied from about % inch to some reported as large as hens' eggs. Crop damage esti-
	_						inch to some reported as large as hens' eggs. Crop damage esti- mated at \$5,000 included in total. Most other damage to roofs. Principal damage to wheat in southern portion of county, where
Cowley County, Kans	25	Night			250, 000	Hail and wind	approximately 10,000 acres destroyed.
Moore, Lee, Wayne, Columbus, Johnston, Bladen, Onslow, Duplin, and Robeson, N. C.	26	Noon				do	Same thundersform that produced tornado. Heavy crop damage in some areas.
Robeson, N. C. Sampson, Johnston and Wayne Counties, N. C.	26	12:30 p. m	200-300	0	100,000	Tornado	First struck 8 miles east of Dunn. Path due east to 2½ miles west of Newton Grove, passed ?{a mile north of Newton Grove 23{10 miles east of Newton Grove. Path 12 miles long. Storm dipped to earth at intervals. Funnel cloud believed to have split into 2 funnels north of Newton Grove, then rejoined soon after. A heavy hallstorm, with hall as large as golf balls, occurred late in morning at Dunn. After hallstorm a large rolling soud cloud with thunderhead cloud observed. This may be taken as evidence of severe turbulence present in area preceding form-
Lake City, Ark	26	3 p. m				Hail	ation of tornado. A few minor injuries.  Some damage to crops and gardens.
Greensville County, Va	26	6-6:25 p. m				do	Hail killed some poultry; corn and cotton had to be replanted in small area near Emporia.
Haskell and Seward Counties, Kans.	26	6 p. m	18		125, 000	Hail and wind	Damage strip extended from 5 miles south of Sublette to 5 miles south of Liberal in north-and-south line of 25 miles. Most damage in Seward County. Hail generally size of marbles.
Grant County, Kans	26	Afternoon	1 2-5			Hail	Path of destruction extended from north-central part of county to southeast corner, almost 25 miles.
Northeastern Webster and northwestern Wright Counties, Mo.	26	10-11 p. m	1134		1, 150	do	

			VERE	51 OF	CMS FOI	R MAY 1949—C	ontinued
Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Bourbon County, Kans	26	Evening	12		500	Hail	Storm moved eastward along a path of 5 miles in western part of
Dundy County (northeast-	26		16		200, 000	do	county. Losses to wheat crop. Path 20 miles long.
ern part), Nebr. Green Forest, Ark	27	11 a. m				do	
Madison, Ark	27 27 27	Evening do do				do	Damaged crops and gardens, Considerable damage to gardens and crops,
Madison, Ark Big Flat, Ark Pryor (4 miles south), Okla. Blaine County, Okla.	28 28	Noon 1 p. m		1	75, 000	do_ Electrical Hail	Considerable damage to crops and fruit over small area.  Damaged crops and gardens.  Considerable damage to gardens and crops.  One vivid streak of lightning struck and killed boy.  Area 3 x 5 miles, 6 miles west of Watonga; destroyed nearly ripened
Geyser, Mont Isle of Wight County, Va	28	2:30 p. m				do	wheat. Some damage to alfalfa.
Isle of Wight County, Va Raleigh, Grant County, N. Dak.	28 28 28	6-6:15 p. m Evening	1 5		500 150, 000	do	wheat.  Some damage to alfalfa.  All crops had to be replanted over area ½ x ¾ mile.  Most damage in strip about 5 miles wide and 8 miles long, approximately 5 miles south of Raleigh. Hall covered ground several inches thick, broke many windows, some crops complete loss.
Hobson and Windham,	28-29					do	inches thick, broke many windows, some crops complete loss.  Light damage to alfalfa. Hail 4 to 8 inches deep on level.
Mont.		1		1 1			Executively beauty rains accompanying arrest than durates and
Thief River Falls and vicinity, Minn.	29	A. m. and p. m.			!	Rain	flooded fields, lowlands, highways, roads, streets and basements.  Some homes, buildings, and merchandise stored in basements damaged; much poultry perished; much washing, drowning of growing crops and some fields of small grain reported total loss.  Rivers and creeks overflowed and some bridges washed out.
Gooding, Jerome, Lincoln and Blaine Counties, Idaho.	29	12:30–7 p. m			15, 000	Hail and wind	Excessively heavy rains, accompanying severe thunderstorms, flooded fields, lowlands, highways, roads, streets and basements. Some homes, buildings, and merchandise stored in basements damaged; much poultry perished; much washing, drowning of growing crops and some fields of small grain reported total loss. Rivers and creeks overflowed and some bridges washed out. Evidently a series of thunderstorms moving generally northeastward. Principal damage in and near Gooding where all small crops such as beet, beans, corn and alfalfa about 75 percent destroyed, mostly by hallstones 5 to 114 inches in diameter; green house at least 50 percent destroyed. Hail caused about \$5,000 damage to grain in early head near Shoshone and \$7,000 damage to grain in early head near Shoshone and \$7,000 damage to stalfalfa near Hailey where numerous trees blown down and estimated \$500 damage to property occurred. About 40 percent damage to hay occurred on ranch near Jerome. Hail lasting about 10 minutes damaged alfalfa and small grains over 30 mile path.
Deer Lodge, Mont	29	3 p. m		1 1		Hail	Hail lasting about 10 minutes damaged alfalfa and small grains over 30 mile path.
Judith Basin and Fergus	29	3 p. m		: 1		do	Hail size of peas to walnuts did considerable damage to wheat and
Counties, Mont. Danvers, Mont. Wolf Creek, Mont	29 29	3:30-4 p. m	2		9,000	đo	Hail, size of peas, damaged wheat in 15 mile path.
	29	5:30 p. m			9,000	do	early crops. \$5,000 damage to roofs and electric signs.
Maine, southwestern portion.	29	Evening				Electrical	Several other houses struck with minor damage. Hail at several points in Cumberland and Androscoggin Counties. An estimated depth of 1 inch reported at South Paris; largest stones about the size of "good-sized peas." No hall damage recorded.
Cascade, Mont		35'3-1-14 1		ĺ	*********	Hail	small grains and hay.
Thomas County, Kans	29–30	Midnight-1a.m.	12		500, 000	do	small grains and hay.  Storm began a mile east of Colby, traveling southeastward 15 miles to near county line. Hailstones up to 1 inch in diameter. Wheat main loss,
Forest, Miss	30 30	5 p. m Late afternoon				Wind	Damage small, mostly to trees and corn. Do.
Mobile, Ala	30 30	8:30 p. m P. m.	100		6,000 10,000	do Thundersquall Hail	Damage to host house and machine shop
Craig (near), Mont.	30	Evening		1		Hail and rain	Heavy hall 15 inch in diameter caused considerable damage to winter wheat and spring grains over path 5 miles long. Flooding of about 4 miles of highway interrupted travel on U. S.
Cooper County (southwes-	31	1:15-1:35 p. m				Wind	Highway 91 for over 2 hours.  Wind from southwest blew over some large trees and small buildings, and moved others off foundations in Clifton City.
tern part), Mo. Canal Point, Fla.	31	3–4 p. m				Wind and muck	ings, and moved others off foundations in Clifton City. Clouds of powdered brown muck reduced visibility to near zero for
Blakely (near), Early Coun-	31	3:30 p. m	1	ļ	2, 500	dust, Wind and hail	an hour.  Storm struck local airport on outskirts of Blakely. 1 airplane de-
ty, Ga.	31	3.80 p. m			2, 500	wind and nan	molished; wind damage to hangar roofs. Moderate to heavy hail. 14 to 15 inch in diameter, beat down cotton and peanuts but
Riley County, Kans	31	6:20 p. m	134	0	15, 000	Tornado	losses not more than about \$500.
							ing a farm home and destroying other farm buildings and ma- chinery. Power and telephone lines also damaged.
Miami International Airport, Fla.	31	8 p. m				Thunderstorm, wind and hail.	Strong, gusty winds skidded parked airplanes into a pile up. Winds from south-southwest. Area of damage very limited in front (west) of row of langars in north to south line. No evidence of twisting winds found. Possibly gusts were increased by alignment of hangars. Highest winds at the Weather Bureau Airport office, 1 mile north of damaged area, were south-south-
Jackson, Greer, and Kiowa Counties, Okla.	31	9 p, m	100		2, 500, 000	Hail and wind	west 38 plus with gusts to 50 m. p. h.  Mostly hail damage to nearly ripened wheat in scattered areas throughout Jackson and Greer Counties, but most damage in Kiowa County where crops destroyed in 100 square mile area
Moorhead and vicinity Minn.	31	9-10 p. m			30, 700	Thundersqualls	from Lone Wolf to Gotebo.  4 greenhouses demolished; warehouse partially unroofed; football field press box wrecked; buildings, houses, garages, sheds, barns and farm outbuildings damaged; awnings, canopies, signs and billboards blown away; many windows broken; automobiles damaged; power and communication lines down; many trees any content or branches back and off stight damaged agrees, and communication are content or present and communication.
Ashley, McIntosh County, N. Dak.	31	10 p. m			50,000	Wind	uprooted or branches broken off; slight damage to growing crops. Small buildings in town and on farms blown over; some larger
West Fargo, N. Dak	31	10 p. m		0	10,000	Wind possibly tor- nado.	buildings damaged. Few trees blown over.  Stock shed of Armour & Co. completely demolished. Other buildings nearby not damaged; this leads to belief that it was
Johnson County, Kans	31	11:20 p, m	440	0	15,000	Tornado and wind	tornado of smalll proportions. Funnel first dipped to earth in southwest corner of Gardner, damaging houses and trees for about 4 blocks; traveled northeastward. It skipped to Olathe, where some damage done at Naval Air Station and windows and light wire broken in Olathe. High winds in other parts of county resulted in some property damage.

<sup>&</sup>lt;sup>1</sup> Miles instead of yards.